

Treatment of boron-containing wastewater eluted from boron-selectively adsorptive resin and apparatus for recovering boron-containing effluent with high purity. Kitani, Masanori; Hayakawa, Satoru. (Nippon Denko Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho (2002), 5 pp. CODEN: JKXXAF JP 2002233864 A2 20020820 Patent written in Japanese. Application: JP 2001-32590 20010208. CAN 137:174120 AN 2002:626118 CAPLUS

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 2002233864	A2	20020820	JP 2001-32590	20010208

Priority Application

JP 2001-32590 20010208

Abstract

A B-contg. effluent is recovered by passing a mineral acid through a B-selectively adsorptive resin having N-methylgluamine group; and the recovery is carried out for prescribed duration at different timing at least twice and the effluent contg. a less amt. of foreign substances is used as a B-contg. effluent. The effluent contg. a less amt. of foreign substances is detd. depending on pH alteration. The app. for recovering the B-contg. effluent comprises a B-selective adsorption tower filled with the B-selectively adsorptive resin, a means for passing a mineral acid through the resin in the tank, and a B-contg. effluent recovery tank divided into portions where B-contg. effluent is stored sep. depending on the different foreign substance concn. Highly pure B with little foreign substance and usable for ferroboron prodn. for amorphous metal can be recovered.

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title: JP2002233864A2: METHOD FOR TREATING BORON-CONTAINING ELUENT ELUTED FROM BORON SELECTIVELY ADSORBED RESIN AND APPARATUS FOR RECOVERING BORON ELUENT

Derwent Title: Processing of boron containing eluting solvent for producing ferroboron for amorphous metals, involves adding mineral acid to boron selective-adsorption resin and recovering boron containing eluting solvent [Derwent Record]

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JP20010000032590 Application

Number: IPC-7: C02F 1/28; C01B 35/02; C02F 1/42;
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Abstract: PROBLEM TO BE SOLVED: To solve the problem that impurities enter a boron eluent when the boron eluent is recovered by passing a mineral acid through a boron selectively adsorbed resin having an N-methylglucamine group obtained by treating boron-containing waste water and to provide a means capable of supplying a high purity boron eluent to a subsequent step.
SOLUTION: When a boron eluent is recovered by passing a mineral acid through a boron selectively adsorbed resin having an



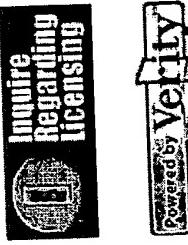
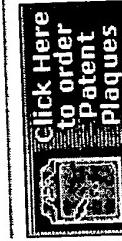
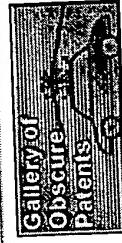
N-methylglucamine group obtained by treating boron-containing waste water, a period of time in which the recovery is carried out is divided into two or more and only an eluent in a period of time in which little impurities are present is used as a solution for recovering boron. Preferably the period of time in which little impurities are present is determined by the pH change of the eluent.

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Family:

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